Ruggedized Computer Catalog

2013 Ver3.1

Shandong Chaoyue Digital Control Electronics Co.Ltd.

http://en.inspur.com/

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I, About Inspur Chaoyue

The Inspur Special Computer Division, named Shandong Chaoyue Digital Control Electronics Co., Ltd. (Briefed in Inspur Chaoyue), established in 1996, is a wholly-owned subsidiary of Inspur Group, mainly engaged in R&D, production, sales and services of special computers.

The former of Inspur Group is Shandong Teaching Instrument Plant established in 1960, which has developed into a high-Tech. enterprise of China in IT industries, owning three listed companies: "Inspur Information Co. Ltd" (Shenzhen Stock Exchange, Code 000977), "Inspur Software Co. Ltd" (Shanghai Stock Exchange, Code 600756), "Inspur International Limited" (Hong Kong Stock Exchange, Code 00596), covering 5 products series: computers, software and service, intelligent terminals, mobile communication and semiconductor, with customers over more than twenty countries and areas. Inspur Group established R&D centers in US, Japan and Germany, and overseas production base in South America. Inspur Group is a leading supplier for computing platform products and application solution in China. The "Inspur" trademark has become one of the competitive brands in China's IT industry.

The Inspur Chaoyue is a high-Tech. enterprise with special computers engineering centers, based on state-level Inspur technique center, The State Key Laboratory Of efficient server and storage technology, establishing three-level technology innovation system: basic technology study, products design and process development. We have obtained multi core technology patents with unique technique advantages concerning system design, thermal design, and design of three-proofing, shock absorption and EMC of Ruggedized products.

The Inspur Chaoyue is located in the Inspur industrial park occupying 260, 000 square meters. As the largest special computer production base in China, we are equipped with top class production machines such as laser cutting machines, NC machining center and high-speed SMT machines etc, possessing international advanced automated production line, adopting intelligent production flow integrating assembling, debugging, maintenance, aging and packaging, owning yearly output of more than 200, 000 sets of special computers.

Inspur Chaoyue has passed international quality system ISO9001, environmental protection system ISO14001, military quality system GJB9001A and Naval Equipment quality system certification, approving of Confidential Qualification of Manufacturer, Scientific Bodies in Military Equipments, military information security products certification, State Electromagnetism Leakage and Emission Safety Product Certification, possessing qualification of suppliers relate to equipment of PLA General Armament Department, weapons and equipment research and production license and license for the Scientific Research and Production of Military Electronic Equipment.

The Inspur Chaoyue special computers feature high stability, reliability, security and wide Temp., vibration-proof, water-proof and dust-proof, suitable for various special environments such as vehicle, ship, airplane and fields etc, and widely used in national defense, public security armed police, aerospace communication, mineral exploration and railway traffic etc.

Fig. 1 Inspur Industral Park Fig.2 The Production Base of Special Computer

Fig.3 TheAdvanced Automated Production Line Fig. 4 The Laser Cutting Machine

Fig.5 Naval Equipment Quality System Certification Fig. 6

Fig. 6 License for the Scientific Research and Production of Military Electronic Equipment.

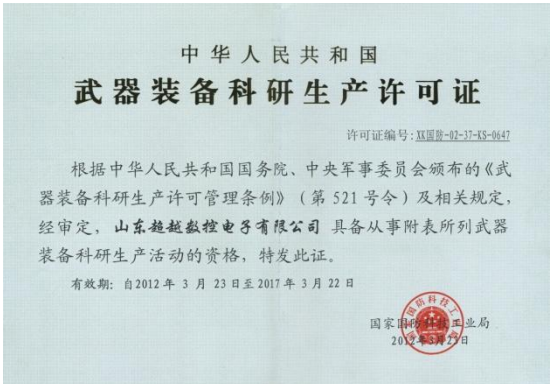


Fig. 7 License for the Scientific Research and Production of weapons and equipment

Fig. 8 Qualification of suppliers relate to equipment of PLA General Armament Department

Fig.9

Fig.9 GJB9001A Military Quality System

II, Product Series

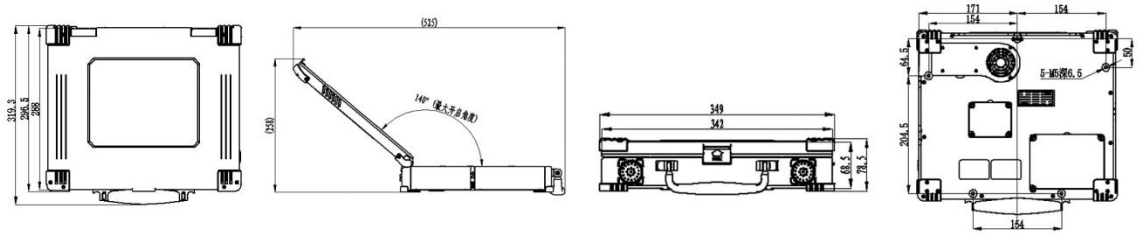
1. JGBX Series Ruggedized Laptop

The body of this series is made of Mg-Al alloy with independent cabin design. All interfaces are isolated with the outside via enclosed cabin door. The overall machine is robust, highly steady, reliable and water-proof, dust-proof, vibration-proof, drop-proof, salt fog proof, EMI-proof, information leak prevention, wide Temp. and portable etc. suitable for various harsh environments, complying with China's military standard, widely used in national defense, public security, fire, traffic, petroleum, exploration, ship and coal industries etc.

1.1 Ruggedized Laptop Model JGBX3235

1.1.1 Appearance

1.1.2 Mechanical



1.1.3 Specification

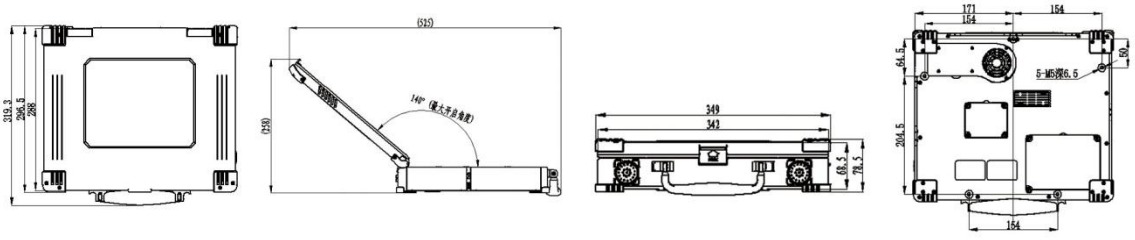
Electrical parameters	
CPU	Intel Core 2 Duo SP9300 @2.26GHz
Memory	2GB DDR memory, expandable to 4GB
Hard Disk	120GB SSD
Disk Drive	External DVD- RW
Monitor	15 inches LCD screen with resolution 1024×768,Integrated Display Card with 352Mb RAM
I/O	2 RS232 serial ports, 1 VGA port, 1 S-Video port, 2 RJ45 Network ports, 4 USB ports, 1 headphone and microphone jack ,1 CF card slot,1SD card slot,1 Aviation power input port.
Power supply	AC 100-240V @ 50-60Hz, DC19V 90w Adaptor, 8000mAh smart lithium battery
Operating system	Windows 2000, Windows XP, Linux etc.
Keyboard/mouse	86 keys keyboard, Touch Mouse, external USB optical mouse
Dimension	342mm×288mm×68mm (W×D×H) (excluding tray and handle)
Weight	≤5.5Kg
Environment parameters	
Operating Temp.	-25℃~+55℃

Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~200Hz, acceleration15m/s^2, power off.
Shock	Peak acceleration 200m/ s^2, pulse width 11ms, 3 axes, power off
Rain (optional)	Complying with GJB150 -8A Environmental test methods for military equipments Part 8
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 including in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

1.2 Ruggedized Laptop Model JGBX3335

1.2.1 Appearance

1.2.2 Mechanical



1.2.3 Specification

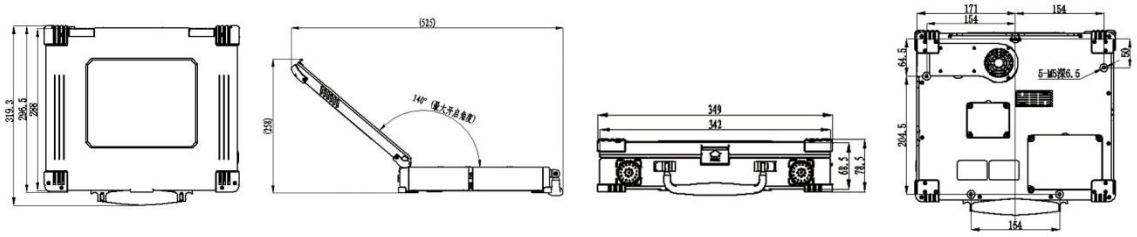
Electrical parameters	
CPU	Intel Core 2 Duo SP9300 @2.26GHz
Memory	2GB DDR memory, expandable to 4GB
Hard Disk	120GB SSD with self-destruction feature

Disk Drive	External DVD- RW
Monitor	15 inches LCD screen with resolution 1024×768,Integrated Display Card with Max. 352Mb RAM, Sunlight readable
I/O	1 VGA port, 1USB port, 1 headphone and microphone jack , 1 CF card slot,1SD card slot, 1 PCMCIA slot, Aviation interface:2 USB ports,1 RS232 port,1 network port, 1 inject port,1 GPS/BDS port, 1 power input port.
Power supply	AC 100-240V @ 50-60Hz,DC24V, 120w Adaptor, 7700mAh smart lithium battery
Operating system	Windows XP, Win 7, Linux etc.
Keyboard/mouse	86 keys keyboard, Touch Mouse, external USB optical mouse
Dimension	342mm×288mm×68mm (W×D×H) (excluding tray and handle)
Weight	≤6Kg
Environment parameters	
Operating Temp.	-40℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~200Hz, acceleration15m/s^2, power off.
Shock	Peak acceleration 200m/ s^2, pulse width 11ms,3 axes, power off
Rain (optional)	Complying with GJB150 -8A Environmental test methods for military equipments Part 8
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 including in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

1.3 Ruggedized Laptop Model JGBX3255

1.3.1 Appearance

1.3.2 Mechanical



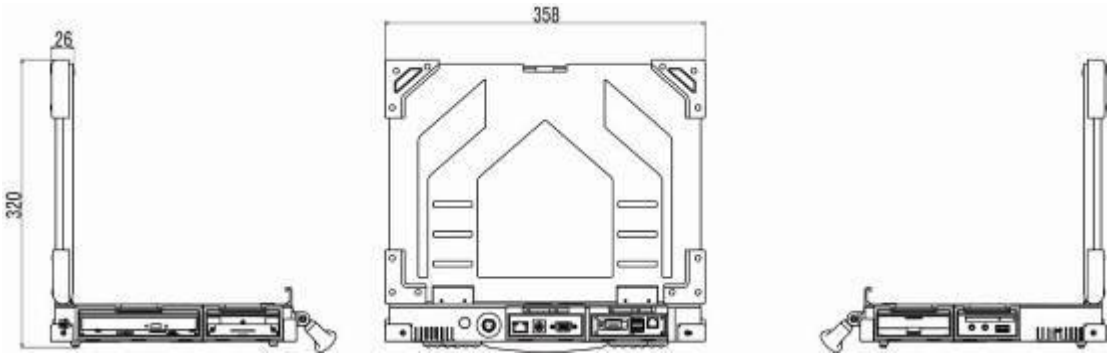
1.3.3 Specification

Electrical parameters	
CPU	Intel i series CPU @1.7GHz
Memory	4GB
Hard Disk	120GB SSD with self-destruction feature
Disk Drive	External DVD- RW
Monitor	15 inches LCD screen with resolution 1024×768, Independent Display Card with 1GB RAM
I/O	2 RS232 serial ports, 1 VGA port, , 1 headphone and microphone jack, 1SD card slot, 3 USB2.0 ports,1 USB3.1 port ,2 network ports, 1 inject port,1 GPS/BDS port, Aviation interface :1 power input port.
Power supply	AC 100-240V @ 50-60Hz,DC19V 90 W Adaptor, 8000mAh smart lithium battery
Operating system	Windows XP, Win 7, Linux etc.
Keyboard/mouse	86 keys keyboard, Touch Mouse
Dimension	342mm×288mm×71mm (W×D×H) (excluding tray and handle)
Weight	≤6.5Kg
Environment parameters	
Operating Temp.	-25℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~200Hz, acceleration15m/s^2, power off.
Shock	Peak acceleration 200m/ s^2, pulse width 11ms,3 axes, power of f
Rain (optional)	Complying with GJB150 -8A Environmental test methods for military equipments Part 8
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 including in China’s military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

1.4 Ruggedized Laptop Model JGBX5214

1.4.1 Appearance

1.4.2 Mechanical



1.4.3 Specification

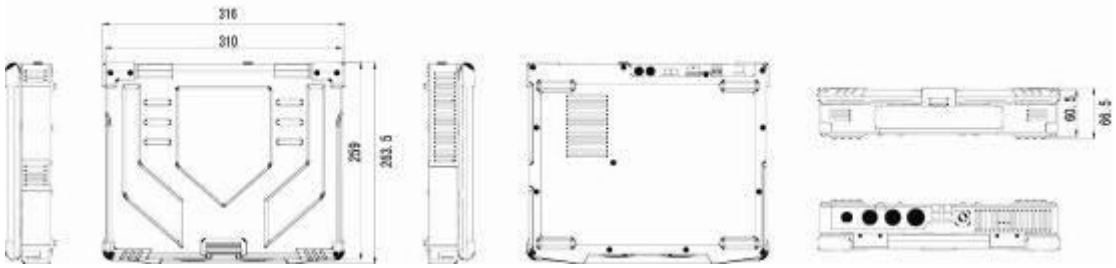
Electrical parameters	
CPU	Intel i series CPU @1.7 GHz
Memory	4GB
Hard Disk	500GB
Disk Drive	Built-in DVD- RW
Display	Integrated display card with 512MB shared video memory
Monitor	14.1 inches LED screen with resolution 1280×800
I/O	1 RS232 serial port, 1 VGA port, 1 RJ45 network port, 4 USB ports, 1 audio output

	and 1 microphone jack, 1 Express slot, 1 aviation power input port.
Power supply	100-240V@50-60Hz DC19V 90W Adaptor, 8000mAh smart lithium battery
Audio device	Embedded high quality stereo speaker, to connect microphone and headphone
Operating system	Windows 2000, Windows XP, Linux etc.
Keyboard/mouse	88-key backlit keyboard, touch mouse
Dimension	348 mm×265 mm×60 mm (W×D×H) (excluding tray and handle)
Weight	≤ 4.5Kg
Environment parameters	
Operating Temp.	-25℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~200Hz, acceleration 15m/s^2, power off
Shock	Peak acceleration 200m/s^2, pulse width11ms;3 axes, Power off
Rain (optional)	Complying with GJB150 -8A Environmental test methods for military equipments Part 8
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
Up to 4 serial ports	

1.5 Ruggedized Laptop Model JGBX6202

1.5.1 Appearance

1.5.2 Mechanical



1.5.3 Specification

CPU	Intel Core2 Duo SL9400,1.86GHz
Chipset	GS45
Memory	2G B ， Max 4GB
SSD	120G SSD with self-destruction feature
DISK driver	Extra DVD-RW
Display	12. 1 inches LED screen with resolution 1024 X 768,sunlight readable
Input device	Touch pad, water-proof membrane keyboard
Ground pole	1
I/O port	Aviation port: 1 Network port, 1 USB2.0 port, 1 RS232 serial port, 1 power input port. Standard Port: 1 VGA port, 1 network port, 3 USB2.0 ports, 1 Express card slot, 1 MIC & headphone jack .
Power supply	AC 100-240V @50-60 Hz , DC19V 90w adaptor , Built-in 8000mAh smart Lithium battery
OS	Windows XP, Win 7,Linux,etc.
Power consumption	≤ 30W

Dimensions	310 X 260 X 60mm (not include foot blocks and handle)
Weight	≤ 4.5Kg (exclude battery)
temperature	Operation temp. -25 ℃ to 55 ℃， Storage temp-40 ℃ to +65 ℃
Humidity	95%RH ±3%RH,+40 ℃ non-condensing
Vibration	5 - 200 Hz, acceleration 1.5 g, power on.
Shock	Peak acceleration 200 m/s^2, pulse width11ms;3 axes, power on
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

1.6 Ruggedized Laptop Model JGBX6205

1.6.1 Appearance

1.6.2 Mechanical

1.6.3 Specification

CPU	Intel Core2 Duo SP9300 ,2.26GHz
Memory	2GB
HDD	120G SSD with self-destruction feature (optional)
Disk driver	Extra DVD-RW
Display	15 inches LED, resolution 1024 X 768,sunlight readable, integrated display cared with 352MB shared video memory
Input device	Touch pad, 86-keys backlit keyboard, touch mouse
Ground pole	1
I/O port	Standard I/O port: 1 VGA port, 2 USB Ports,1 CF card slot,1 SD card slot, 1 MIC& headphone jack. Aviation Ports: 1 USB port, 1 network port, 1 RS232 serial port, 1power input port, 1 GPS/BDS port.
Speaker	A pair of Hi-fi dual channel water-proof speakers
Power supply	AC 100-240V@50-60Hz DC19V 90W adaptor , Built-in 8000mAh high-capacity polymer li-ion battery
OS	Windows XP, Win 7, Linux etc.
Power consumption	≤ 30W

Dimensions	342mm X 288mmX 71mm (not include foot blocks and handle)
Weight	≤ 6KG(include battery)
Temperature	Operation temp. -25 ℃ to 55 ℃, Storage temp. -40 ℃ to +65 ℃
Humidity	95%RH ±3%RH,+40 ℃ non-condensing
Vibration	5 to 200 Hz, 1.5 g acceleration along 3 axial directions. 7min at each axis, power on
Shock	Peak acceleration 200 m/s^2, pulse width11ms;3 axes, power on
EMC (optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

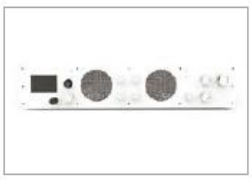
2. JGJJ SERIES RACK MOUNTED RUGGEDIZED PRODUCTS

2.1 RACK MOUNTED RUGGEDIZED COMPUTER

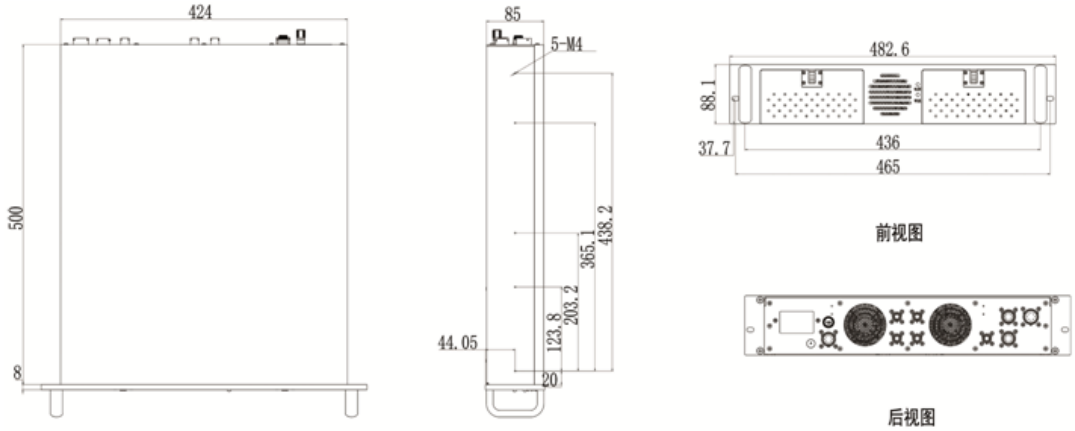
The rack mounted ruggedized computer feature optimum design in vibration, ruggedized installation, cooling and EMC with stainless steel rack, modular design, I/O aero jack, highly steady, reliable, vibration/shock resistant, convenient for maintenance, suitable for severe environments such as vehicle, airplane, ship and field etc, widely used in military, industries and traffic applications etc.

2.2.1 2U RACK MOUNTED RUGGEDIZED SERVER MODEL JGJJ3112/3212

2.2.1.1 Appearance



2.2.1.2 Mechanical

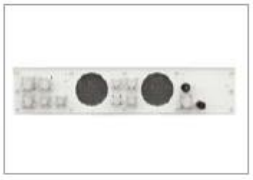


2.2.1.3 Specification

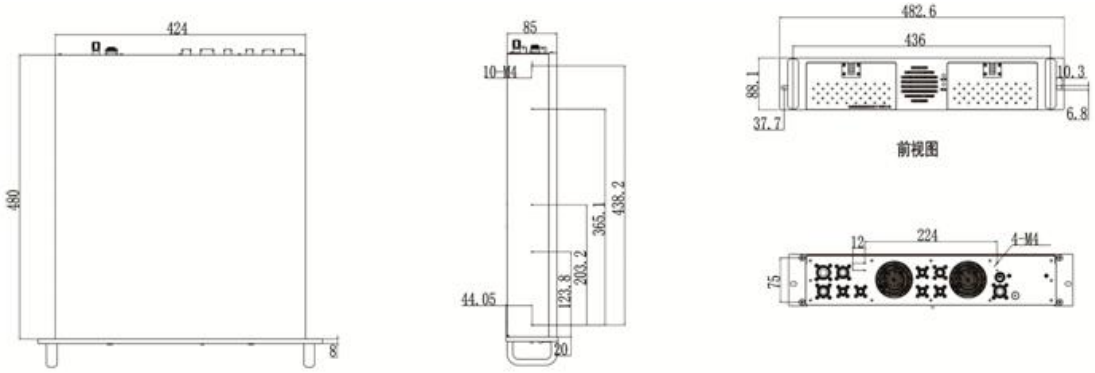
Electrical parameters	
CPU	Intel Xeon L5518 @ 2.13Hz , 2
Memory	2GB,Max.4 GB
Display	Integrated graphic card with shared 32MB video memory
Hard Disk	500GB HDD,
Disk Drive	Built-in DVD –RW
I/O	Aviation Port: 1 power input port, 1 keyboard/mouse port, 1 VGA port, 2 RS232 serial ports, 2 Ethernet ports, 2 USB Ports;2 standard USB ports.
Operating system	Windows 2003 Server, Linux etc.
Power	AC 100-240V @ 50-60Hz or DC 18-36V
Dimension	424mm×85mm×500mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤19Kg
Environment parameters	
Operating Temp.	0℃~+50℃(JGJJ3112), -20℃~+55℃ (JGJJ3212)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz), power off
Shock	Peak acceleration 200m/s^2, pulse width 11ms,3 axes, power off
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
2 PCI-E x 8 slots reserved	

2.1.2 2U RACK MOUNTED RUGGEDIZED COMPUTER MODEL JGJJ3132/3232

2.1.2.1 Appearance



2.1.2.2 Mechanical



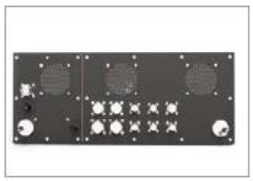
2.1.2.3 **Specification**

Electrical parameters	
CPU	Intel i5-2500, 3.3GHz
Memory	2 GB,Max.8GB
Display	Integrated graphic card, shared 1GB video memory
Hard Disk	500GB HDD
Disk Drive	Built-in DVD –RW
I/O	Aviation port: 1 power input port, 1 Keyboard/mouse port, 3 USB ports, 1 VGA port, 2 serial ports, 2 Ethernet ports, 1 audio jack ; Standard port: 4 USB ports, 1 Mic & Earphone jack
Power	AC 100-240V @50-60Hz
Operating system	Windows XP, Win 7, Linux etc.
Dimension	424mm×85mm×480 (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤17Kg
Type of rack	19 inches upper rack
Environment parameters	
Operating Temp.	0℃~+50℃ (JGJJ3132), -20℃~+55℃(JHJJ3232)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm ,1.5g(5.5~200Hz), power off

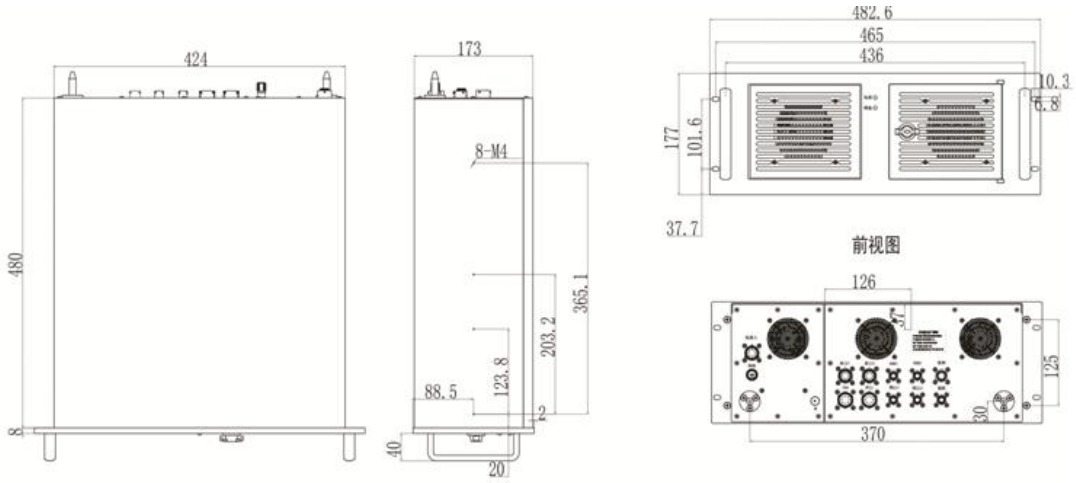
Shock	Peak acceleration 200m/s2, pulse width 11ms,3 axes, Power off
EMC (optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
2 PCI slots and 1 PCI-Ex16 slot reserved	

2.1.3 4 U RACK MOUNTED RUGGEDIZED COMPUTER MODEL JGJJ3114/3214

2.1.3.1 Appearance



2.1.3.2 Mechanical



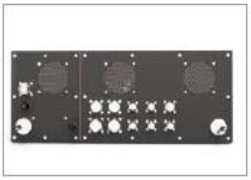
2.1.3.3 Specification

Electrical parameters	
CPU	Intel i5-2500, 3.3GHz
Memory	2GB,Max.4GB
Display	Integrated graphic card with shared max1GB video memory ,Independent graphic card (Optional)
Hard Disk	500GB
Disk Drive	Built-in DVD-RW

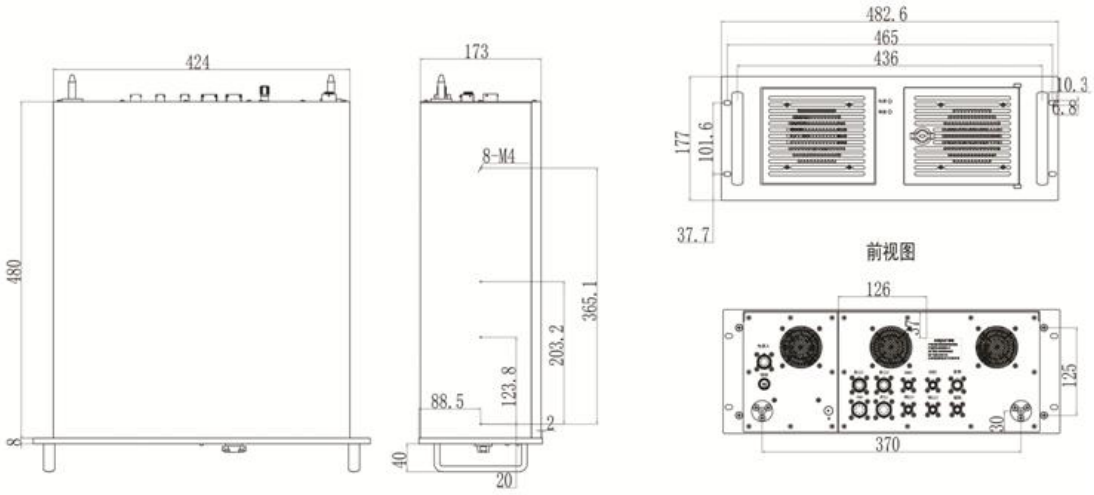
I/O	1 power input port, 1 Keyboard /mouse port,1 VGA port,2 RS232 serial ports, 2 Ethernet ports, 2 USB Ports, 1 Audio jack. standard port : 4 USB ports,1 headphone /MIC port
Power	AC 100-240v @ 50-60 Hz
Operating system	Windows 2000, Windows XP, Linux etc
Dimension	424mm×173mm×480mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤21Kg
Type of rack	Enclosed 19 inches upper rack
Environment parameters	
Operating Temp.	-0~+50℃(JGJJ3114), －20℃～+55℃(JGJJ3214)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~5.5Hz, displacement (double-amplitude) 25.4mm, 5.5~200Hz, acceleration 1.5g, power off
Shock	Peak acceleration 200m/ s^2 , pulse width 11ms,3 axes, power off
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
1 PCI-Ex1, 1PCI-Ex16 slot, 4 PCI slots reserved	

2.1.4 4 U RACK MOUNTED RUGGEDIZED COMPUTER MODEL JGJJ3134/3234

2.1.4.1 Appearance



2.1.4.2 Mechanical



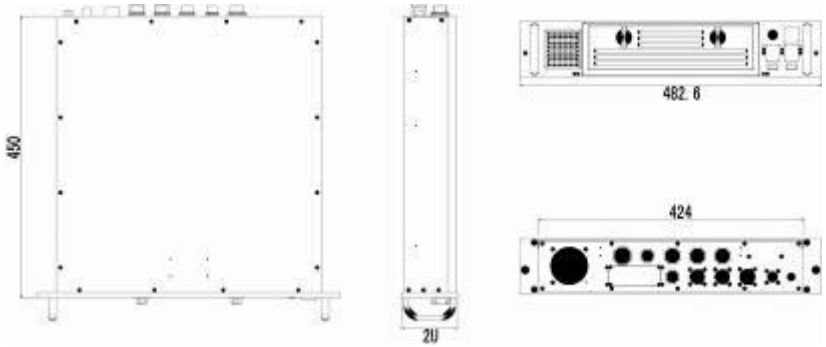
2.1.4.3 Specification

Electrical parameters	
CPU	Intel i5-2500, 3.3GHz
Memory	4GB
Display	Integrated graphic card with shared max1GB video memory
Hard Disk	500GB HDD
Disk Drive	Built-in DVD-RW
I/O	Aviation port: 1 power input port, 1 Keyboard /mouse port,1 VGA port,2 RS232 serial ports, 2 Ethernet ports, 2 USB Ports, 1 Audio jack. standard port : 4 USB ports,1 headphone /MIC port
Power	AC 100-240v @ 50-60 Hz
Operating system	Windows 2000, Windows XP, Linux etc
Dimension	424mm×173mm×480mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤25Kg
Type of rack	Enclosed 19 inches upper rack
Environment parameters	
Operating Temp.	-0~+50℃(JGJJ3134), -20℃～+55℃(JGJJ3234)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~5.5Hz, displacement (double-amplitude) 25.4mm, 5.5~200Hz, acceleration 1.5g, power off
Shock	Peak acceleration 200m/ s^2 , pulse width 11ms,3 axes, power off.
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
1 PCI-Ex1, 1PCI-Ex16 slot, 4 PCI slots reserved	

2.1.5 2U RACK MOUNTED CPCI RUGGEDIZED COMPUTER MODEL JGJJ3222

2.1.5.1 Appearance

2.1.5.2 Mechanical



2.1.5.3 Specification

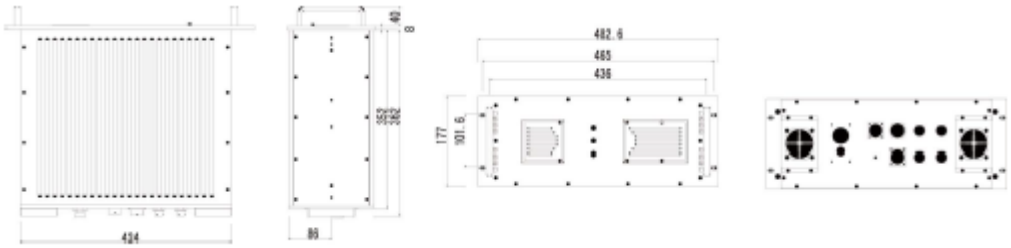
Electrical parameters	
CPU	Intel i5 -2510E CPU @2.5GHz
Memory	4GB
Display	Integrated graphic card, shared 128MB video memory
HDD	128 GB SSD with self-destruction feature
Disk Drive	Extra DVD-RW
I/O	Aviation port: 1 power input port, 1 keyboard /mouse port,1 VGA port, 1 Ethernet port, 2 RS232 serial ports, 2 USB ports , 1 inset /destroy port,1 Audio jack ,1 inject/destruction port ;Standard port: 2 USB ports
Power	DC 24V input
Operating system	Windows XP, Win7,Linux etc
Dimension	424mm×83mm×442mm (W×H×D) (The depth excluding front panel and aero plug)

Weight	≤15Kg
Type of rack	Enclosed 19 inches upper rack
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~5.5Hz, displacement (double-amplitude) 25.4mm, 5.5~200Hz, acceleration15m/s^2 , power on
Shock	Peak acceleration 200m/ s^2 , pulse width11ms ,3 axes, power on.
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
4 X 3 U CPCI slots reserved	

2.1.6 4 U RACK MOUNTED RUGGEDIZED COMPUTER MODEL JGJJ3224

2.1.6.1 Appearance

2.1.6.2 Mechanical



2.1.6.3 Specification

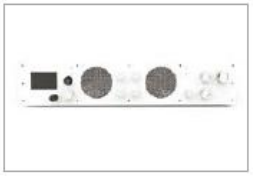
Electrical parameters	
CPU	Intel Core 2 Duo T9400, 2.53Hz
Memory	4GB,Max 8GB
Display	Integrated graphic card, shared 120MB video memory
Hard Disk	128GB SSD with self-destruction feature
Disk Drive	Extra DVD-RW
I/O	Aviation port: 1 power input port, 1 Keyboard /mouse port,1 VGA port,2 RS232 serial ports, 1 Ethernet port, 2 USB Ports ,1 Audio jack; 2 standard USB ports.
Power	AC 100-240v @ 50-60 Hz
Operating system	Windows 2000, Windows XP, Linux etc
Dimension	424mm×173mm×420mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤20Kg
Type of rack	Enclosed 19 inches upper rack
Environment parameters	
Operating Temp.	-20~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5~5.5Hz, displacement (double-amplitude) 25.4mm, 5.5~200Hz, acceleration 1.5 g, power on
Shock	Peak acceleration 200m/ s^2 , pulse width 11ms,3 axes ,power on .
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	4X6 U CPCI slot reserved

2.2 RACK MOUNTED RUGGEDIZED SERVER

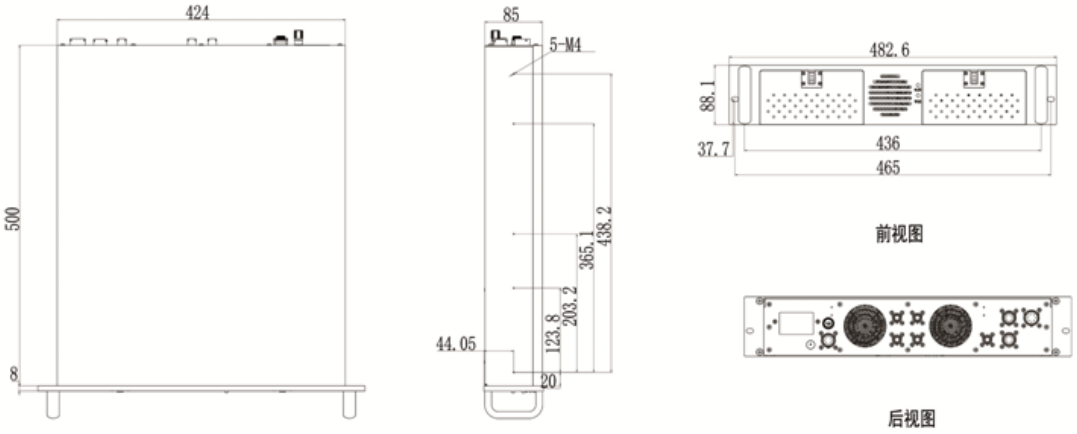
This series adopt special ruggedized design, high quality Al-alloy panel, stainless steel rack, featuring optimum vibration/shock resistance and cooling capacity, flexible configuration, optional redundant power unit, redundant processors and memory array, suitable for severe environments such as vehicle, airplane, ship and field etc, widely used in military, industrial and traffic etc.

2.2.1 2U RACK MOUNTED RUGGEDIZED SERVER MODEL JGJJ5112/5212

2.2.1.1 Appearance



2.2.1.2 Mechanical



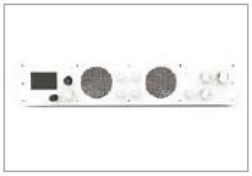
2.2.1.3 Specification

Electrical parameters	
CPU	Intel Xeon L5518 @ 2.33Hz , 2
Chipset	Intel 5100
Memory	4GB,Max.12 GB
Display	Integrated graphic card with shared 32MB video memory
Hard Disk	2*300GB SAS HDD
Disk Drive	Built-in DVD –RW
I/O	Aviation Port: 1 power input port, 1 keyboard/mouse port, 1 VGA port, 2 RS232 serial ports, 2 Ethernet ports, 2 USB Ports;2 standard USB ports.
Operating system	Windows 2003 Server, Linux etc.
Power	AC 100-240V @ 50-60Hz or DC 18-36V
Dimension	424mm×85mm×500mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤19Kg
Environment parameters	
Operating Temp.	0℃~+50℃（JGJJ5112）,-20℃~+55℃ （JGJJ5212）

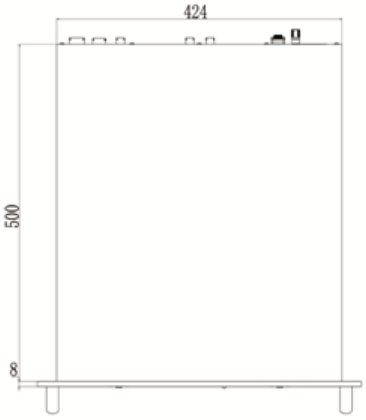
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz) , power off
Shock	Peak acceleration 200m/s^2, pulse width 11ms,3 axes, power off
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
2 PCI-E x 8 slots reserved	

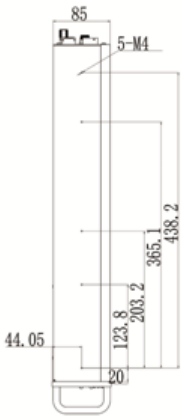
2.2.2 2U RACK MOUNTED RUGGEDIZED SERVER MODEL JGJJ5132/5232

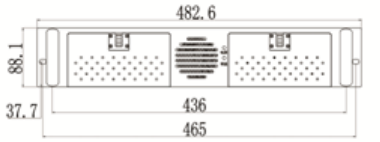
2.2.2.1 Appearance



2.2.2.2 Mechanical







前视图

后视图

2.2.2.3 Specification

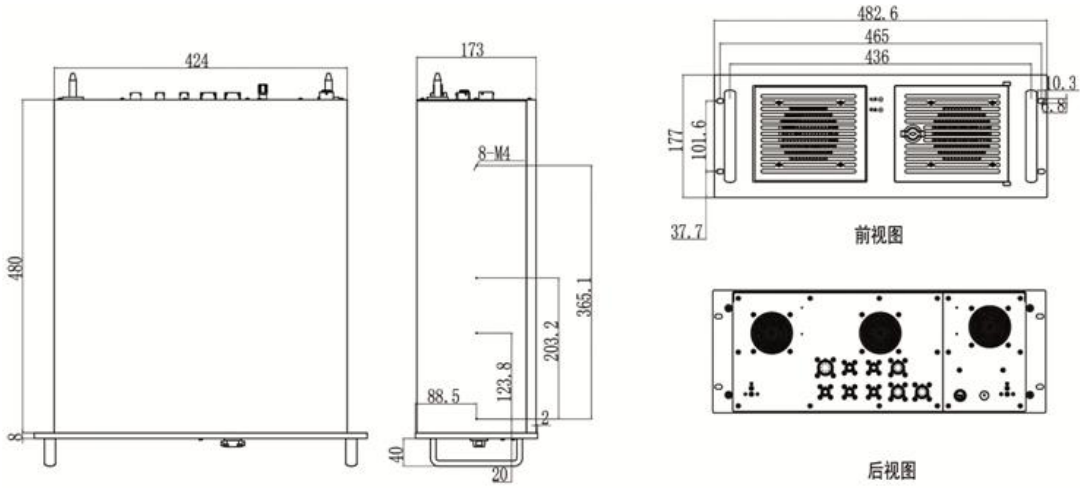
Electrical parameters	
CPU	Intel Xeon L5518 @ 2.13Hz , 2
Chipset	Intel 5500
Memory	DDR3 8GB,Max.24 GB

Display	Integrated graphic card with shared 32MB video memory
Hard Disk	2*300GB SAS HDD,
Disk Drive	Built-in DVD –RW
I/O	Aviation Port: 1 power input port, 1 keyboard/mouse port, 1 VGA port, 2 RS232 serial ports, 2 Ethernet ports, 2 USB Ports; 2 standard USB ports.
Operating system	Windows 2003 Server, Linux etc.
Power	AC 100-240V @ 50-60Hz or DC 18-36V
Dimension	424mm×85mm×500mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤19Kg
Environment parameters	
Operating Temp.	0℃~+50℃ (JGJJ5132),-20℃~+55℃ (JGJJ5232)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz) , power off
Shock	Peak acceleration 200m/s^2, pulse width 11ms,3 axes, power off
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
2 PCI-E x 8 slots reserved	

2.2.3 4U RACK MOUNTED RUGGEDIZED SERVER MODEL JGJJ5114/5214

2.2.3.1 Appearance

2.2.3.2 Mechanical



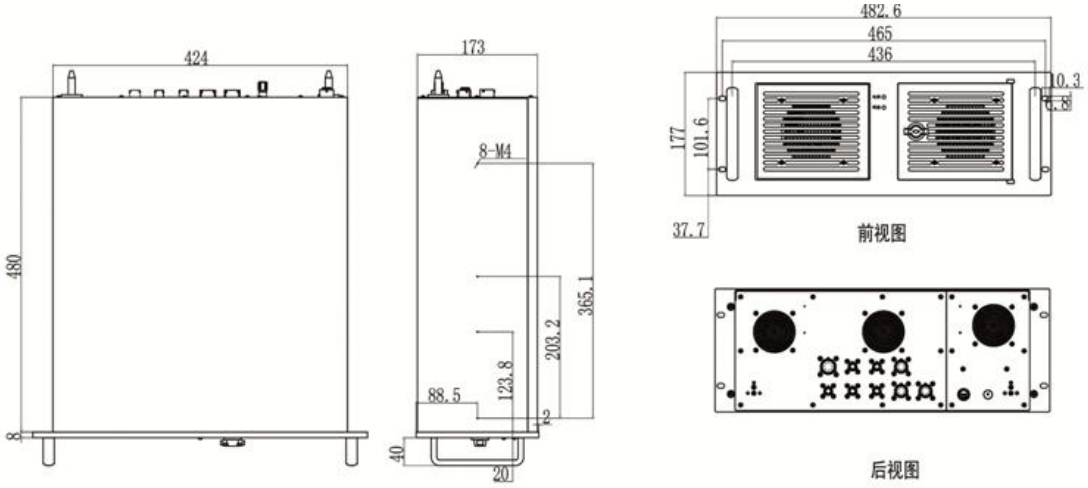
2.2.3.3 Specification

Electrical parameters	
CPU	Intel Xeon L5518 @ 2.33Hz , 2
Chipset	Intel 5100
Memory	4GB,Max.12GB
Display	Integrated graphic card, shared 32MB video memory
Hard Disk	4*300GB HDD
Disk Drive	Built-in DVD –RW
I/O	Aviation Port: 1 power input port, 1 keyboard/mouse port, 1 VGA port, 2 serial ports, 2 Ethernet ports, 2 USB Ports; Standard port: 2 USB ports.
Operating system	Windows 2003 Server, Linux etc.
Power	AC 100-240V @ 50-60Hz or DC 18-36V
Dimension	424mm×173mm×480mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤29Kg
Environment parameters	
Operating Temp.	0℃~+50℃(JGJJ5114), -20℃~+55℃(JGJJ5214)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz) , power off
Shock	Peak acceleration 200m/s^2, pulse width 11ms,3 axes ,power off.
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
2 PCI-E x 8 slots reserved	

2.2.4 4U RACK MOUNTED RUGGEDIZED SERVER MODEL JGJJ5134/5234

2.2.4.1 Appearance

2.2.4.2 Mechanical



2.2.4.3 Specification

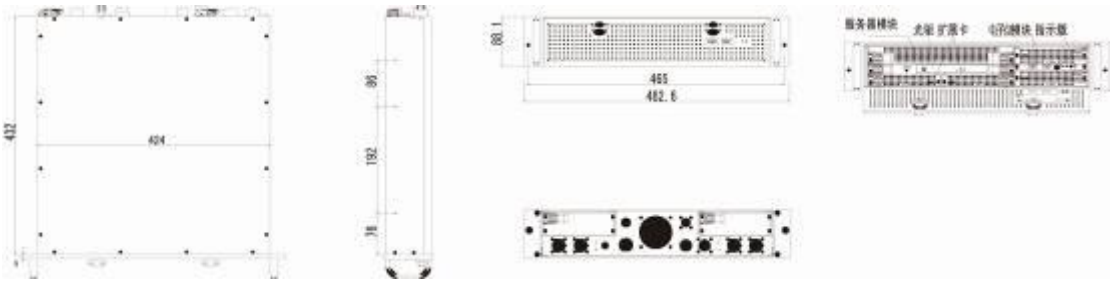
Electrical parameters	
CPU	Intel XeonL5518 @ 2.13GHz, 2
Chipset	Intel 5500
Memory	8GB ,Max.24 GB
Hard Disk	4*300GB HDD
Disk Drive	Built –in DVD-RW
I/O	Aviation Port: 2 USB ports,1 power input port, 1 keyboard/mouse port, 1 VGA port, 2 RS232 serial ports, 2 Ethernet ports, 2 standard USB ports,.
Operating system	Windows 2000 Server, Windows 2003 Server, Linux etc.
Power	AC 100-240V @ 50-60Hz or DC 24V (18-36V)
Dimension	424mm×172mm×480mm (W×H×D) (The depth excluding front panel and aero plug)
Weight	≤29Kg
Environment parameters	
Operating Temp.	0℃~+50℃(JGJJ5134)，-20℃~+55℃(JGJJ5234)

Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude)25.4mm; 1.5g(5.5~200Hz) , power off
Shock	Peak acceleration200m/s^2, pulse width11ms, power off
Expandability	
2 PCI slots reserved	

2.2.5 2U RACK MOUNTED CPCI RUGGEDIZED SERVER MODEL JGJJ5222

2.2.5.1 Appearance

2.2.5.2 Mechanical



2.2.5.3 Specification

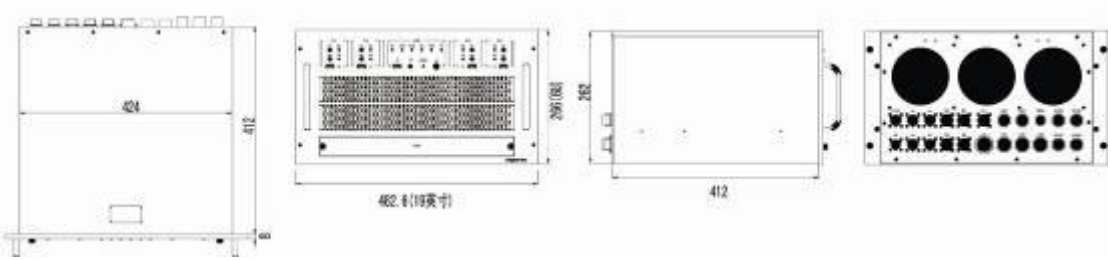
Electrical parameters	
CPU	Intel Xeon L5518 @ 2.13GHz
Chipset	Intel 5500
Memory	4GB,Max.8GB

SSD	3x120GB SSD, with self-destruction feature
Disk Drive	Built-in DVD-RW
I/O	2 standard USB ports ;Aviation port : 1 USB port,1 Keyboard port, 4 Ethernet ports, 1 VGA port, 1 inject/ destroy key port,1 power input port.
Power supply	DC 24 V(18-36V) Adaptor
Operating system	Windows 2000, Windows XP, Windows 2003 server etc.
Dimension	424mm×83.1mm×432mm (W×D×H)
Weight	15Kg
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0-5.5Hz,displacement(double amplitude)25.4mm,5.5-200Hz , acceleration 15 $m/s^{2,}$ power on
Shock	Peak acceleration 200 m/s^2, pulse width 11ms,3 axes, power on
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
Expandable 2 X 3U CPCI slots	

2.2.6 6U RACK MOUNTED CPCI RUGGEDIZED SERVER MODEL JGJJ5226

2.2.6.1 Appearance

2.2.6.2 Mechanical



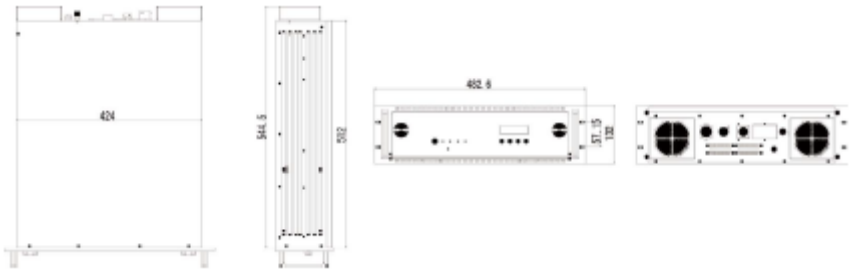
2.2.6.3 Specification

Electrical parameters	
CPU	Intel Xeon, 2.13GHz,4
Chipset	Intel 5500
Memory	4GB,Max.8GB
Hard Disk	Board borne 64 GB SSD with self destruction feature
I/O	Standard port : 1 shared USB port,4 individual USB ports. Aviation port： 4 Ethernet ports , 1 KVM over IP port, 1 cascade connection port, 2 VGA input ports, 2 KVM input ports, 1VGA output port,1 Keyboard/mouse port, 4 inject/destroy ports, 1 power input port, 1 shared USB port ,4 individual USB ports.
Component	4 server modules, 2 Ethernet switch modules,1 shared storage module,1 management and control module ,1 redundant power module .
Power supply	DC 24 V(18-36V) Adaptor
Operating system	Windows 2000, Windows XP
Dimension	424mm×262mm×412mm (W×D×H)
Weight	≤35Kg
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	50~500Hz, acceleration 15m/s^{2,} power on
Shock	Peak acceleration 200 m/s^2, pulse width 11ms, power on .
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
expandable 4 X 3U CPCI slots	

2.3 RUGGEDIZED DISK ARRAY MODEL JGJJ 6233

2.3.1 Appearance

2.3.2 Mechanical



2.3.3 Specification

Electrical parameters	
CPU	Intel RISC IOP80331 800 Mhz
Memory	512 MB
I/O	Aviation port：1 adjusted port , 4 Ethernet ports , 1 power input port
Power supply	Redundant AC power
Dimension	424mm×128mm×490mm (W×H×D)
Weight	≤25Kg
Environment parameters	
Operating Temp.	-25℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	50~500Hz, acceleration 15m/s^2,power off
Shock	Peak acceleration 200 m/s^2, pulse width 11ms, power off
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

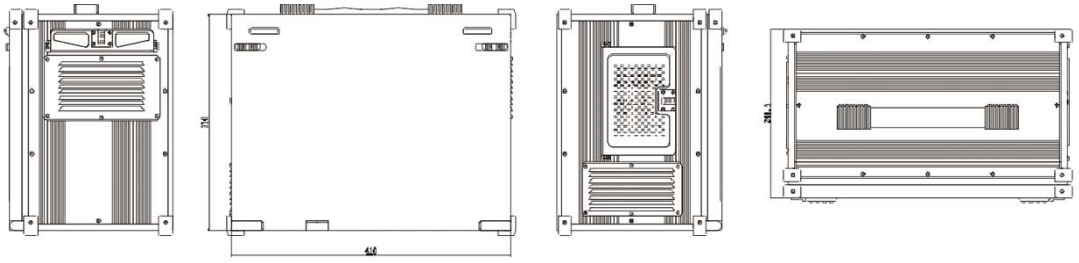
3. JGXX Series Portable Ruggedized Products

This series adopt special structure, three-level (machine, board and core elements) shock absorption design, three-proof (humidity, mildew and salt fog) design, EMI ruggedized , modularization design and standardization design, featuring excellent adaptability and expandability. The electrical/environmental parameters and EMC parameters meet China's military requirements, and the products can be used as platforms for instruments in vehicle, airplane and ship, as well as site detection and field command platforms.

3.1 PORTABLE RUGGEDIZED COMPUTER MODEL JGXX3114/3214

3.1.1 Appearance

3.1.2 Mechanical



3.1.3 **Specification**

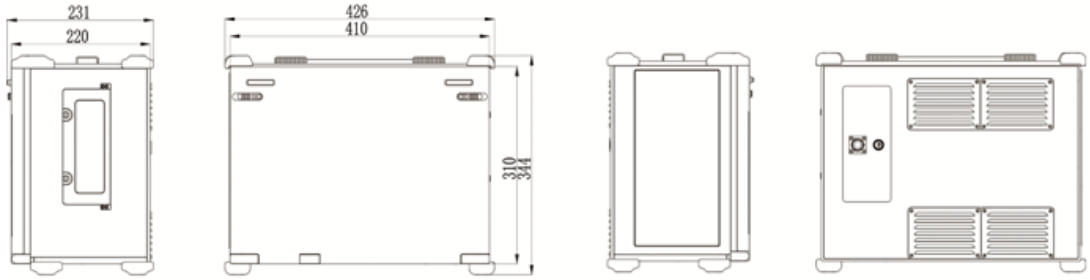
Electrical parameters	
CPU	Intel Core 2 DuoT9400 @ 2.53GHz
Memory	2GB,Max 4GB
Hard Disk	500GB， 120GB SSD （JGXX3214）

Disk Drive	Built-in DVD – RW
Keyboard	84 Keys ,Touch mouse
Monitor	Integrated Display card with 1GB Video Memory,15 Inches LED with 1024*768 Resolution
I/O	standard port :4 USB ports ,1 DVI port, 2 serial ports, 2 Ethernet ports, 1Aviation power Input port
Operating system	Windows 2000, Windows XP, Linux etc.
Power	AC 100-240 @ 50-60Hz
Dimension	410mm×241mm×310mm（W×D×H）
Weight	≤15Kg
Environment parameters	
Operating Temp.	0℃~+50℃ (JGXX3114), -25℃~+55℃ (JGJJ3214)
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz), power off
Shock	Peak acceleration 200m/s2, pulse width11ms, power off.
Expandability	
4 PCI half size slots reserved	

3.2 PORTABLE CPCI RUGGEDIZED COMPUTER MODEL JGXX3224

3.2.1 Appearance

3.2.2 Mechanical



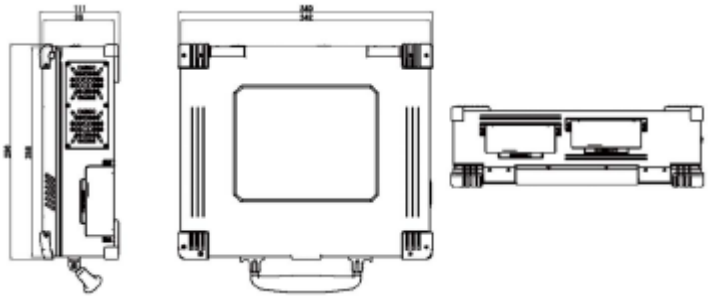
3.2.3 **Specification**

Electrical parameters	
CPU	Intel Core 2 DuoT9400 @ 2.53GHz
Memory	4GB,Max 8GB
Hard Disk	120GB SSD
Disk Drive	Built-in DVD – RW
Keyboard	84 Keys ,Touch mouse
Monitor	Integrated Display card with 128MB Video Memory,15 Inches LED with 1024*768 Resolution, sunlight readable
I/O	standard port :4 USB ports ,1 DVI port, 2 serial ports, 2 Ethernet ports, 1Aviation power Input port
Operating system	Windows 2000, Windows XP, Linux etc.
Power	AC 100-240 @ 50-60Hz
Dimension	410mm×220mm×310mm（W×D×H）
Weight	≤15Kg
Environment parameters	
Operating Temp.	-25℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz)
Shock	Peak acceleration 200m/s^2, pulse width11ms, power off.
Expandability	
5 x 3U CPCI slots reserved	

3.3 PORTABLE RUGGEDIZED COMPUTER MODEL JGXX3233

3.3.1 Appearance

3.3.2 Mechanical



3.3.3 Specification

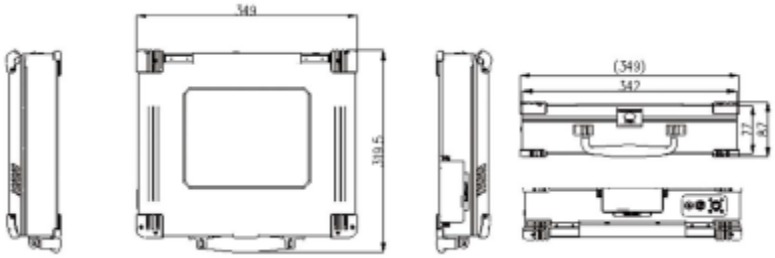
Electrical parameters	
CPU	Intel Core 2 Duo T9400 @2.53GHz
Memory	2GB
Display	Integrated graphic card, up to 224MB shared video memory
Hard Disk	120GB SSD
Monitor	15 inches , 1024*768 resolution
Disk Drive	Extra DVD –RW
I/O	1Aviation power input port, standard port :2 USB ports,1 DVI port,, 1 serial port, 2 Ethernet ports
Operating system	Windows 2000, Windows XP, Linux etc
Power	AC 100-240 @ 50-60Hz
Dimension	342mm×288mm×98mm（W×H×D）
Weight	≤10Kg
Environment parameters	

Operating Temp.	-25℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz), power off
Shock	Peak acceleration200m/s^2, pulse width11ms, power off.
Expandability	
1 PCI slots reserved	

3.4 FULLY RUGGEDIZED COMPUTER MODEL JGXX3335

3.4.1 Appearance

3.4.2 Mechanical



3.4.3 Specification

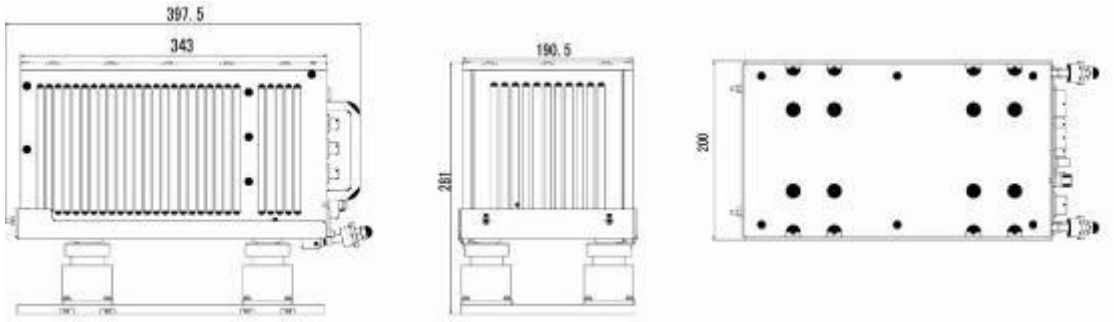
Electrical parameters

CPU	Intel Core Duo 1.66GHz
Chipset	Intel 945GME
Memory	2GB
Hard Disk	64GB SSD
Monitor	15 inches, resolution 1024×768 , sunlight readable
I/O	standard port : 3 USB2.0 port, 1 Ethernet ports, 1 VGA port, 1 audio/ microphone jack respectively, 1 aviation power input port
Power supply	DC 24V(18-36 V) Adaptor,7200mAh Lithium battery
Operating system	Windows 2000, Windows XP
Keyboard/mouse	84key ,Touch Mouse
Dimension	342mm×288mm×85mm (W×D×H) (excluding handle and tray)
Weight	≤7.5Kg
Environment parameters	
Operating Temp.	-40℃~+55℃
Storage Temp.	-55℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	50~500Hz, acceleration 42 m/s^2
Shock	Peak acceleration 200 m/s^2, pulse width11ms,power on.
Rain(optional)	Complying with GJB150.8A Environmental test methods for military equipments Part8
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-4261F
Expandability	
1 PC104 slots , or 104 PLUS slots reserved	

3.5 FULLY RUGGEDIZED COMPUTER MODEL JGXX3320

3.5.1 Appearance

3.5.2 Mechanical



3.5.3 Specification

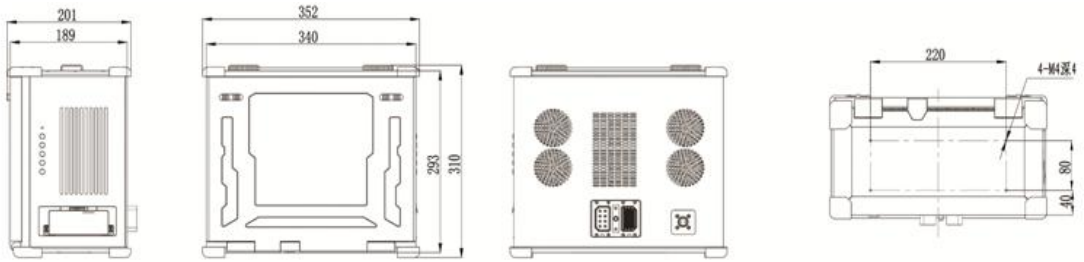
Electrical parameters	
CPU	Intel Core Duo 1.66GHz
Memory	1GB， Max. 2GB
Hard Disk	32GB SSD
Drive	Extra DVD-RW
Display	Integrated graphic card, shared 224MB video memory
I/O	2 serial port, 2 RS232/422/485 ports, 1 parallel port, 4 USB2.0 port, 2 Ethernet ports, 1 VGA port, 1 audio/ microphone jack respectively， 1 aero jack power supply port.
Power supply	DC 24 V(18-36V) Adaptor
Operating system	Windows 2000, Windows XP
Dimension	3/4 ATR, 343mm×190mm×194mm (W×D×H) , 404mm×200mm×280mm (W×D×H)(Including aviation port and bottom platform)
Environment parameters	
Operating Temp.	-40℃~+55℃

Storage Temp.	-50℃~+70℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0-5.5 Hz, 50~500Hz, acceleration 42 m/s^2 , power on
Shock	Peak acceleration 200 m/s^2, pulse width 11ms, power on.
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
8 x 3U CPCI slots reserved	

3.6 RUGGEDIZED SERVER MODEL JGXX 5312

3.6.1 Appearance

3.6.2 Mechanical



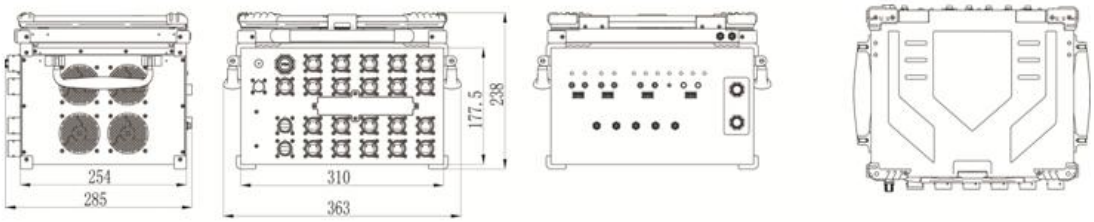
3.6.3 Specification

Electrical parameters	
CPU	Intel Core 4　Xeon L5518 @ 2.13GHz, 2
Chipset	Intel 5500
Memory	4GB，max.16GB
HDD	120GB
Monitor	12.1 Inches LED with 1024*768 resolution
Disk Drive	DVD –R/W
I/O	Standard Port : 2 USB ports ; Aviation Port : 1 power input port, 2 RS232 serial ports, 2 Ethernet ports, 2 USB Ports,1 Remote power on Ethernet port.
Operating system	Windows 2000 Server, Windows 2003 Server, Linux etc
Power	AC 100-240V @50-60Hz
Dimension	340mm×189 mm×293mm（W×D×H）
Weight	≤15 Kg
Environment parameters	
Operating Temp.	-40℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz), power on
Shock	Peak acceleration 200m/s^2, pulse width11ms, power on.
Expandability	
2x3 U CPCI slots reserved	

3.7 RUGGEDIZED SERVER MODEL JGXX 5313

3.7.1 Appearance

3.7.2 Mechanical



3.7.3 Specification

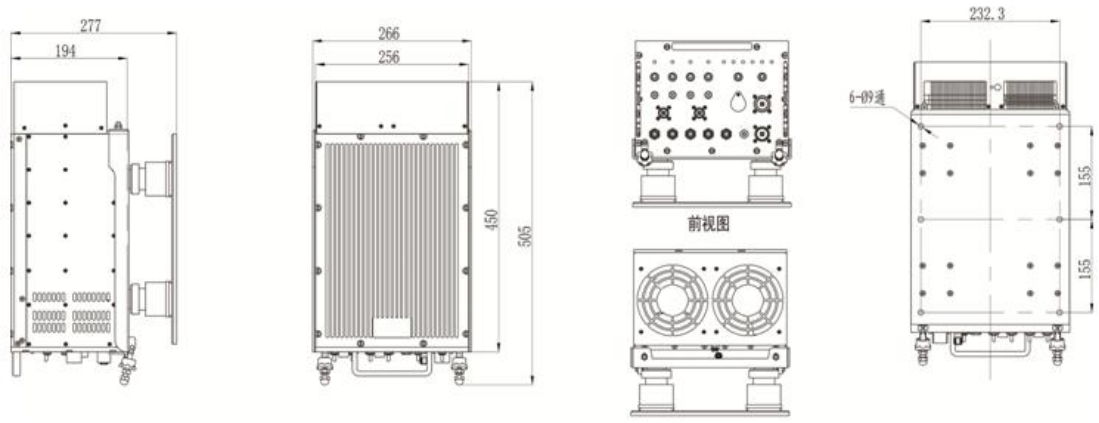
Electrical parameters	
CPU	Intel Core 4 Xeon L5518 2.13GHz, 2
Memory	4GB， Max.16GB
HDD	Board borne 64GB SATA SSD with self destruction feature, 4*256 GB WSSD
Monitor	12 Inches ,1024*768 resolution
Input Device	Standard keyboard/touch mouse
Disk Drive	DVD –R/W
I/O	Standard Port : 2 USB ports ; Aviation Port : 1 power input port, 1 KVM over IP port,1 Uplink port, 1VGA+Keyboard/mouse port, 20 Ethernet ports
Component	2 server modules, 2 Ethernet switch modules, 1 shared storage module, 1 management and control module, 1 redundancy Power module ,1 display terminal .
Operating system	Windows 2000 Server, Windows 2003 Server, Linux etc
Power	AC 100-240V @50-60Hz

Dimension	310mm×254 mm×177mm（W×D×H）
Weight	≤15 Kg
Environment parameters	
Operating Temp.	-40℃~+55℃
Storage Temp.	-40℃~+70℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5 g(5.5~200Hz), power on
Shock	Peak acceleration 200m/s^2, pulse width11ms , power on.
Expandability	
2x 3 U CPCI slots reserved	

3.8 FULLY RUGGEDIZED SERVER MODEL JGXX5320

3.8.1 Appearance

3.8.2 Mechanical



3.8.3 Specification

Electrical parameters	
CPU	Intel Core Duo 2,Xeon 2.0GHz
Memory	2GB
Hard Disk	64GB SSD
I/O	Aviation port :2 serial ports, 4 USB2.0 ports, 5 Ethernet ports, 1 VGA port, 1 keyboard/mouse port,1 power supply port
Component	2 server units,2 Ethernet switch units,1 shared storage unit,1 management and control unit,1 redundant power unit
Power supply	DC 24 V(18-36V)
Operating system	Windows 2000, Windows XP
Dimension	266mm×505mm×277mm (W×D×H)(Including aviation port and bottom)
Weight	≤25Kg
Environment parameters	
Operating Temp.	-40℃~+65℃
Storage Temp.	-50℃~+65℃
Humidity	95％±3％, 40℃, non-condensing
Vibration	5-5.5 Hz displacement 25.4mm. 50~500Hz, acceleration 42 m/s^2 ,power on
Shock	Peak acceleration 200 m/s^2, pulse width 11ms, power on
Rain(optional)	Complying with GJB150.8A Environmental test methods for military equipments
Salt (optional)	For PH of 6.5~7.2, the machine shall operate normally after continuous salt fog spray for 48 hours, no obvious change on the surface
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
2 x3U CPCI slots reserved	

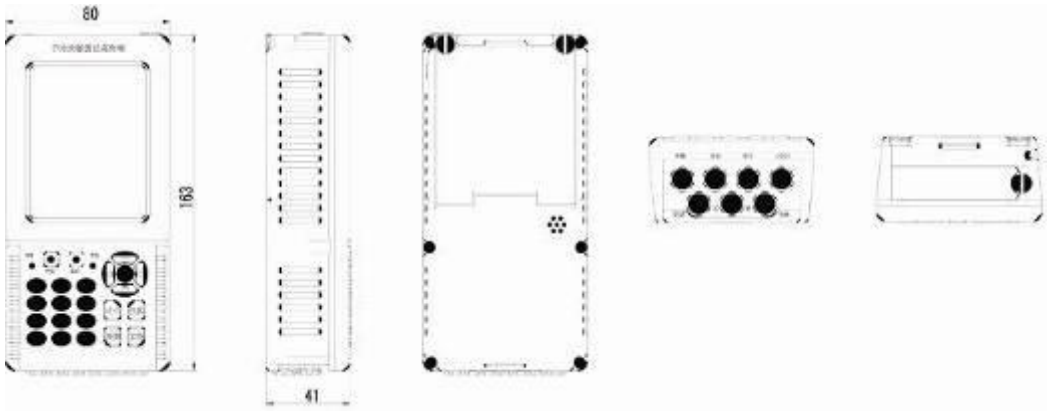
4. Embedded Ruggedized Products

This series of products feature compact structure, magnesium alloy case, robustness, strong adaptability to environment. This product is equipped with embedded RISC Processor, LCD visible under the sunshine, expandable GPS unit, featuring super long standby time, suitable for applications in field and unfixed environments.

4.1 RUGGEDIZED HANDHELD COMPUTER MODEL JGQR1211

4.1.1 Appearance

4.1.2 **Mechanical**



4.1.3 Specification

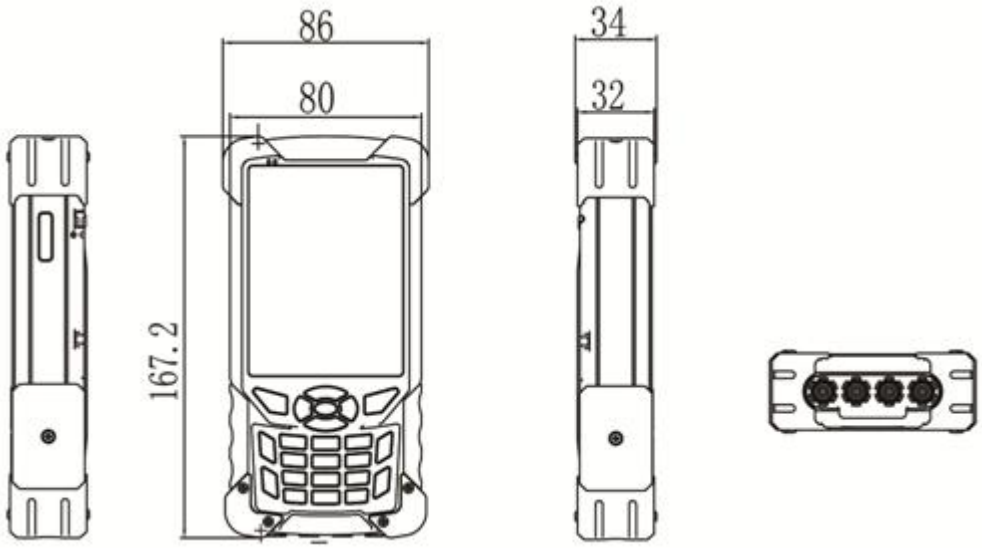
Electrical specifications	
CPU	Intel Xscall PXA270,520MHz main frequency

SDRAM	128MB
NorFlash	64MB
NAND Flash	2GB
Display	3.5 inch 240 x 320 LCD, sunlight readable
Audio	Built in Phone
Keyboard	23 functional keys
I/O port	Standard ports:1 SD slot,1 CF slot, aviation ports: 1 USB port， 1 serial port,1 100MB Network port, 1 GPS antenna port,1 power input port
Power supply	DC 12V, AC 100-240V@50-60 Hz adapter, 2300 mAh battery
Dimensions	163mm x 80 mm x 32 mm（W x D x H）
Weight	≤550g
Environmental specifications	
Operation temp.	-25℃ to +55℃
Storage temp.	-40℃ to +65℃
Humidity	95%±3%, 40℃, no condensing
Vibration	5 to 200Hz, 15 m/s^2 acceleration, power off
Shock	200 m/s^2 peak acceleration at 11ms pulse, 3 axes, power off.
Rain(optional)	Meet the requirement of the standard GJB150. 8A Environmental test methods for military equipments

4.2 RUGGEDIZED HANDHELD COMPUTER MODEL JGQR1215

4.2.1 Appearance

4.2.2 **Mechanical**



4.2.3 Specification

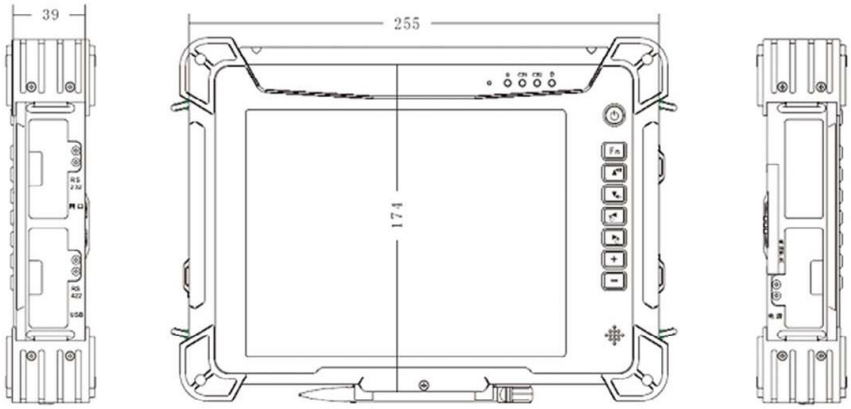
Electrical specifications	
CPU	Intel Freescale I .MX536 ,1GHz

Memory	1GB DDR3
Flash	4GB
Display	3.5 inch 480 x 640 LCD, sunlight readable
Audio	Built in Phone
Keyboard	23 functional keys
Camera	Built in camera with 300 M pixels
I/O port	Aviation port: 1 power input, 1 main USB port and 1 subordinate USB port share the same aviation port, 2 serial ports,,1 Network port 100M . Standard Port:1 mini SD card slot
Power supply	DC 12V, AC 100-240V@50-60 Hz adapter, 2300 mAh battery
Dimensions	163mm x 80 mm x 32 mm（W x D x H）
Weight	≤550g
Environmental specifications	
Operation temp.	-25℃ to +55℃
Storage temp.	-40℃ to +65℃
Humidity	95%±3%, 40℃, no condensing
Vibration	5 to 200Hz, 15 m/s^2 acceleration
Shock	200 m/s^2 peak acceleration at 11ms pulse, 3 axes, power on.
Rain(optional)	Meet the requirement of the standard GJB150. 8A Environmental test methods for military equipments

4.3 RUGGEDIZED TABLET COMPUTER MODEL JGQR2224

4.3.1 Appearance

4.3.2 Mechanical



4.3.3 Specification

Item	Parameter
CPU	Atom Z530, 1.6GHz
OS	XP, Linux, Vista
Memory	2GB
SSD	64GB
Display	8.4 inches LED backlight, touch screen
Resolution	1024 x768
Network	1 adaptive 100 M port

Interface	2 USB2.0 ports, 1 RS-232 and 1 RS422 serial ports, 1 earphone jack and 1 MIC jack, 1 AC Power supply port, 1 Network port
Extension	Built-in Baidou/GPS module, WCDMA Module
Power supply	DC 19V, AC 100-240V @50-60 Hz Adapter
Battery	Built in 2800 mAh battery, Extral 2300 mAh battery
Dimensions	255mm x 183mm x 39mm (WxDxH)
Weight	≤2kg

Environmental	
Temperature	Operation temp.-25℃ to 55℃, Storage temp. -40℃ to 65℃
Vibration	5～5.5Hz，displacement 25.4mm ; 5 to 200Hz 1.5g
Shock	20g , Half sine,11ms,3 axes, power off.
Humidity	95%±3% , 40℃, no condensing
EMC (optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

5. JGWW SERIES RUGGEDIZED NETWORK PERIPHERIES PRODUCTS

This series of products feature wide temperature, vibration–proof, shock-pfoof, High adaptability to harsh environment ,high reliability ,high security , EMC and three –proof complying with the requirements of the military standard .They can be used on vehicle ,ship and field etc.

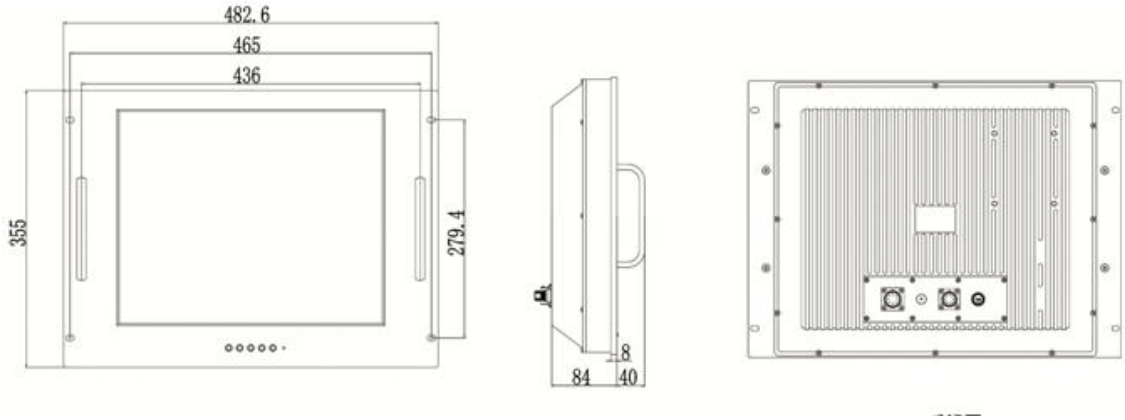
5.1 RUGGEDIZED MONITOR

This series of products are designed for installation in standard 19" rack with analog VGA or digital DVI ports, and aero jack output, featuring wide temperature, vibration-proof, EMC performance complying with GJB151A-1997, and can be used in severe environments such as vehicle and ship etc.

5.1.1 RUGGEDIZED MONITOR MODEL JGWW2207

5.1.1.1 Appearance

5.1.1.2 Mechanical



5.1.1.3 Specification

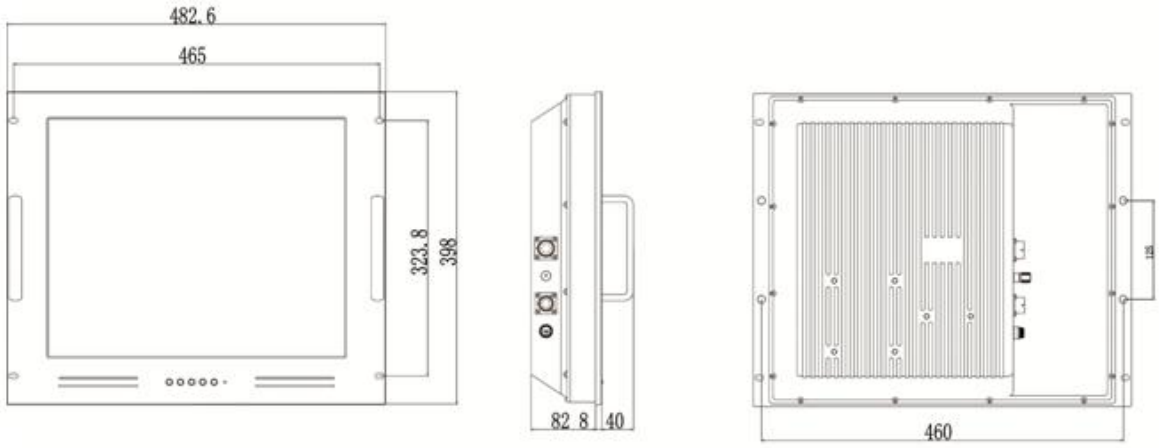
Electrical parameters	
LCD	17 inches
Display area	337.9mm×270.3mm (H×V)
Resolution	1280×1024
Display colors	16.7M colors
Response time	5ms
Brightness	350cd/m ²
Visual angle	80°, 80°, 75°, 85°(R/L/U/D)
Backlit	4×CCFL
Power supply	AC 110-240V@50-60Hz
Max power consumption	50W
I/O	Aviation Port 1 power input port, 1 VGA port
Dimension	482.6mm×354.8mm×84mm (W×H×D) (The depth excluding aero jack)
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	90％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5g(5.5~200Hz), power off.

Shock	Peak acceleration 150 m/s^2, pulse width11ms, power off.
EMC (optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

5.1.2 RUGGEDIZED MONITOR MODEL JGWW2209

5.1.2.1 Appearance

5.1.2.2 Mechanical



5.1.2.3 Specification

Electrical parameters	
LCD	19 inches
Display area	376mm×301mm (H×V)
Resolution	1280×1024

Display colors	16.7M colors
Response time	5ms
Brightness	300cd/m ²
Visual angle	88 °; 88 °; 85 °; 85 °(R/L/U/D)
Backlit	4×CCFL
Power supply	AC 110/240V@50-60Hz
Max power consumption	50W
I/O	Aviation Port: 1 power input port, 1 VGA port
Dimension	482.6mm×399.2mm×125mm (W×H×D) (The depth excluding aero jack)
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	90％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm; 1.5g(5.5~200Hz), power off.
Shock	Peak acceleration 200 m/s^2, pulse width 11ms, power off.
EMC (optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F

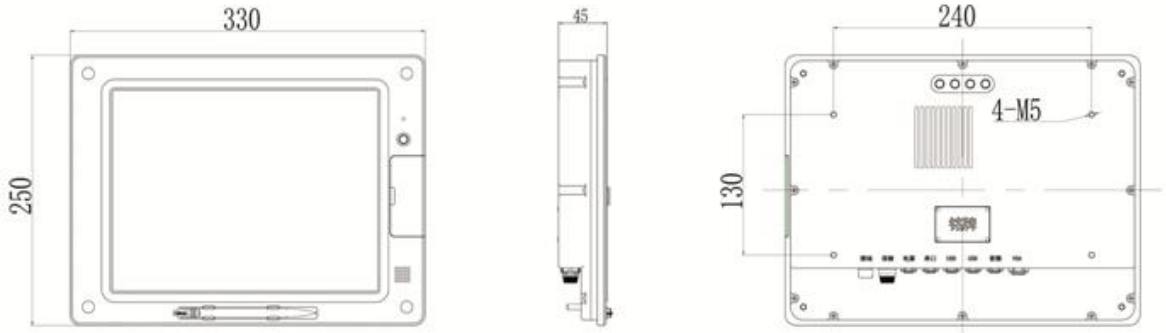
5.2 RUGGEDIZED KVM

This series of products adopt standard 19" rack, special ruggedized and EMC design, analog VGA signal and aero jack, featuring wide temperature and vibration-proof, can be used for platforms on vehicle, airplane and ship.

5.2.1 RUGGEDIZED KVM MODEL JGWW3212

5.2.1.1 Appearance

5.2.2.2 Mechanical



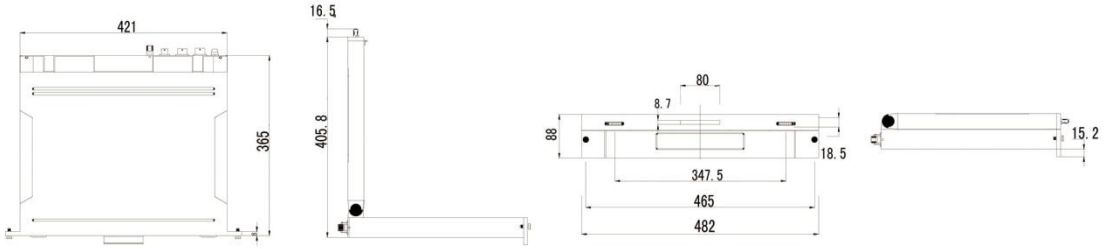
5.2.1.2 Specification

Electrical parameters	
LCD	17 inches
Resolution	1280×1024
Display color	16.7M colors
Response time	5ms
Brightness	300cd/m ²
Visual angle	80°; 80°; 75°; 85° (R/L/U/D) (CR≥5)
Keyboard	84 keys, Touch pad mouse
Power supply	DC 24V,AC 100-240V @50-60Hz
Power consumption	45W
Interface	Aviation Port :1 power input port, 1 VGA port, 2 USB port, 1 serial port, 1 audio input post, standard port in front board : 2 USB ports, 1 headphone/Mic port.
Dimension	330mm×250mm×45mm (W×H×D) (The depth excluding aero jack)
Weight	8Kg
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+70℃
Humidity	90％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm;1.5g(5.5~200Hz), power off.
Shock	Peak acceleration200 m/s^2, pulse width 11ms, power off.

5.2.2 RUGGEDIZED KVM MODEL JGWW3227

5.2.2.1 Appearance

5.2.2.2 Mechanical



5.2.2.3 Specification

Electrical parameters	
LCD	17 inches
Resolution	1280X1024
Display color	16M colors
Response time	25ms
Brightness	300cd/m ²
Visual angle	80°, 80°, 80°, 70° (R/L/U/D) (CR≥5)
Backlit	4×CCFL
Power supply	AC 100-240V @50-60Hz
Power consumption	50W
Interface	Aviation Port: 1 power input port, 4VGA port, 4 keyboard/mouse port.
Dimension	482.6mm×88.1mm×365mm (W×H×D) (The depth excluding aero jack)
Environment parameters	
Operating Temp.	-20℃~+55℃
Storage Temp.	-40℃~+65℃
Humidity	90％±3％, 40℃, non-condensing
Vibration	5.0~5.5Hz, displacement (double-amplitude) 25.4mm;1.5g(5.5~200Hz), power off.

Shock	Peak acceleration 200 m/s^2, pulse width11ms, power off.
EMC (optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F
Expandability	
Expand to connect four computers at the same time which can be switched as needed	

6. JD SERIES SECURITY PRODUCTS

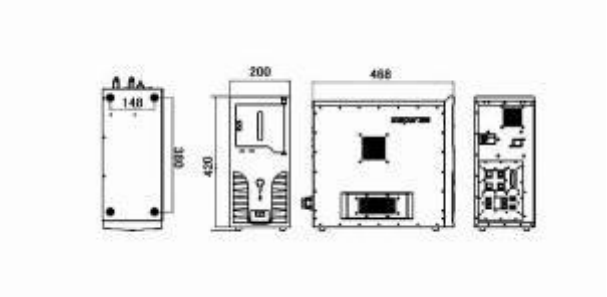
Basing on TEMPEST technology, JD series products feature anti leakage, data protection, and EMI resistance. Possessing multi authoritative certification, the products have been successful applied in government departments, army, public security, finance business field etc.

6.1 MODEL JDC ANTI-ELECTROMAGNETIC LEAKAGE COMPUTER

The Inspur owns mature source suppress technology and tolerance technology in electromagnetic protection field, possessing low leakage, low-emissivity security secrecy computers invention patent and single machine information security protection invention patent. The self-developed products have passed GGBB1 EMC test by the State Secrecy Bureau, Military C+ validation by PLA Information Security Testing Evaluation and Certification Center, complying with national military standard GJB151 Electromagnetic Compatibility of Military Equipment. The products have been successfully applied in party/government departments, army, armed police, public security, finance, enterprise business field etc where security secret is required for data processing.

6.1.1 Appearance

6.1.2 Mechanical



6.1.3 Specification

Electrical parameters	
CPU	Intel i3 -2100 Core 2 3.1GHz
Memory	2GB,Max 8GB
Hard Disk	SATA 500GB,
Disk Drive	DVD -RW
Display	Independent graphic card, video memory 512MB
Monitor	17 inches TFT LCD, resolution 1280×1024
I/O	1 RS232 serial port, 1 VGA port, 1 Ethernet interface, 2 Front USB ports, 2 Rear USB ports, a group of audio port (MIC/LINE IN/LINE OUT)
Power supply	AC 100-240V @50~60Hz,300W
Operating system	Windows XP, Linux etc.
Keyboard/mouse	TEMPEST Keyboard, TEMPEST mouse
Dimension	Monitor :397mm×357mm×428mm, Machine: 468mm×200mm×420mm(L×W×H)
Environment parameters	
Operating Temp.	0℃~50℃
Storage Temp.	-20℃~60℃
EMC(optional)	Complying with items of CE102、CS101、CS114、RE102、RS103 included in China's military standard GJB151A Electromagnetic emission and susceptibility requirements for military equipment and subsystems and MIL-STD-461F Complying with GGBB1-1999 "Electromagnetic leakage emission limit for information device" Level-B

6.2 MODEL S2010 SECURITY COMPUTER

Certification by authorized authority

Comply with state trusted computing standard, adopt trusted cryptography module developed in domestic and cipher algorithm approved by State Cryptography Administration, obtaining sales license for Security Products for Computer Information Systems issued by Ministry of Public Security. Widely used in party/government departments, army, armed police, public security and finance etc.

Level-3 security protection

Level-1 BIOS security

Boot security: The domestic security BIOS integrated with USBKEY hardware, USBKEY identification and authentication is performed immediately after booting and power on, so as to control security of the overall booting process.

Control of devices via ports: management of all peripheral ports, such as network ports, USB ports, printer ports etc, so as to control peripheral equipments.

Disk lock: Binding of disk via BIOS, to ensure the disk can not be read after mounted on other computers.

Level-2 System security

Pre-boot identification: independent innovation pre-boot identification. The user can only log into the system after entering correct username, password as well as USBKEY PIN.

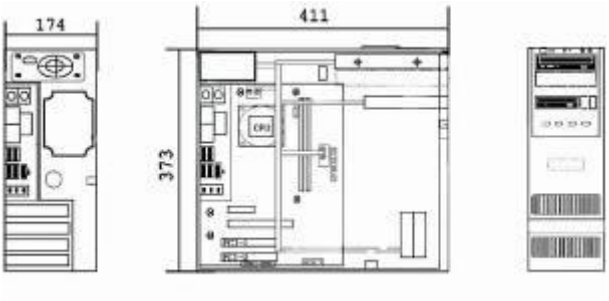
Real-time system protection: Real-time protection of operating system and data based on USBKEY. After the user pulls out the USBKEY as leaving the computer, the system will be locked automatically.

Level-3 data security

Data protection based on TCM (Trusted Cryptography Module) Chipset: hardware-level encryption/decryption, backup and restoration of key data and files.

6.2.1 Appearance

6.2.2 Mechanical



6.2.3 Specification

Electrical parameters	
CPU	Intel®Pentium E8500
BIOS	Domestic security BIOS
Memory	4GB
TCM	TCM security Chipset certified by State Cryptography Administration
Hard Disk	500G

Display	512M independent card
Monitor	19 inches widescreen, resolution 1440 x 900
Disk Drive	DVD-RW
Power	AC 100-240V @50-60Hz,
Keyboard	PS/2 port
Mouse	USB optical mouse
I/0	1 serial port, 1 Ethernet interface, 1 VGA port, 4 front USB, 4 back USB, 1 parallel port, 1 group of standard audio port, 1 PS/2 keyboard port, 1 PS/2 mouse port
Software	System drive, Security computer Management System

III, Application Cases

3.1 Application

1. The portable ruggedized JG series Notebook can be used in military Command Automation System, Weapon Equipment Platform, Detection of Military Equipment, Maintenance and Control Platform, as well as sectors such as aerospace communications, Remote Medical System, Energy investigation, Railway Traffic and public security fire fighting etc.

2. The vehicle-mounted JGJJ series ruggedized computers, servers, displays and network equipments are used in military Command Automation System for all arms and services, as well as automated control and public security monitoring system for sectors in building materials, water supply, coal, food, petroleum and power electricity etc.

3. The JGXX series ruggedized products can be used in field severe environments without platforms, platforms for military command and field detection, as well as field measurement, data processing, monitoring and communication systems for petroleum, coal, power electricity, traffic and exploration etc.

4. The JGWW series ruggedized peripherals can be used in military Command Automation System, as well as mobile monitoring systems for police, fire and medical treatment.

5. The embedded JGQR series ruggedized products can be used in individual soldier information system, vehicle navigation system, field exploration and mineral exploration etc.

6. The JD series security products are listed in China Government Procurement for Secret-involved Products, and can be used in security systems for key sectors such as party, government, army, finance and telecom etc.

3.2 Cases

3.2.1 Combat Command System

Overview

Integrating information processing technologies such as satellite communications, central command, data communication, control and direction of firepower etc, mainly used for combat communication and data acquisition/processing, enhancing information warfare capability.

Functions

The command center is mainly used for command, dispatch and tracing of objects, and sending the command information via the communication system accurately. The communication system will direct the combat via information processing. The combat system will process, display and control the object data, and share it with interconnected multi-level centers.

Application

Inspur JG series ruggedized notebooks are used for command automation, weapon platform, equipment inspection, maintenance and control platform etc.

3.2.1 Field Battle & Emergency Information System

Multi-functional field battle equipments: consisting of ruggedized computers, monitors, video conference terminal, switch and console etc, designed to collect real time battle field video/audio information, and send it to the command center, so that the site status can be viewed at the command center. The secondary monitor can display the collected video information, or switch to the video information from command center or other fields, so that the information of the whole battle filed can be mastered at the command center and all fields.

Vehicle satellite system: consisting of JGJJ series ruggedized computers, satellite communication machine and microwave communication equipments etc, to receive information from individual-soldier system, contact upper-level command center and receive command, as well as contact lower-level individual-soldier system.

Gun Control System: consisting of portable JG series ruggedized notebook, portable JGXX series computers and JGJJ series ruggedized computers etc, to receive battle command from the command center and fight against the enemy.

Command center: consisting of JGJJ series ruggedized servers, JGWW ruggedized network peripherals and console etc, to receive video and text information from the battle field via the private LAN, realizing fast analysis of the progress of battle, and adjusting of the battle disposition in time, giving battle command.

This system is designed for feedback of the field information in real time and efficiently, remote command and control, and information collection, processing, record and data transfer in time, so as to enhance battle ability.

Focus on the customer

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